This Page Is Inserted by IFW Operations and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

As rescanning documents will not correct images, please do not report the images to the Image Problem Mailbox.

ė		1
The state of the s	· · · · · · · · · · · · · · · · · · ·	: 0
• .		
		-
* *		
	e.	
L. "		
-		
-		

Europäisches Patentamt

European Patent Office

Office européen des brevets



(11) EP 0 797 988 A3

(12)

EUROPEAN PATENT APPLICATION

- (88) Date of publication A3: 22.11.2000 Bulletin 2000/47
- (43) Date of publication A2: 01.10.1997 Bulletin 1997/40
- (21) Application number: 96119361.2
- (22) Date of filing: 19.07.1994

- (51) Int. Cl.⁷: **A61K 9/16**, A61K 9/70, A61L 31/00, A61K 31/20, A61K 31/335, A61K 38/57
- (84) Designated Contracting States:

 AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL
 PT SE
- (30) Priority: 19.07.1993 US 94536
- (62) Document number(s) of the earlier application(s) in accordance with Art. 76 EPC: 94920360.8 / 0 706 376
- (71) Applicants:
 - Angiotech Pharmaceuticals, Inc.
 Vancouver, British Columbia V6E 3X1 (CA)
 - THE UNIVERSITY OF BRITISH COLUMBIA Vancouver, British Columbia V6T 1Z3 (CA)

- (72) Inventors:
 - Burt, Helen M.
 Vancouver B.C. V5W 1L8 (CA)
 - Jackson, John K.
 Vancouver B.C. V6N 2HN (CA)
 - Hunter, William L.
 Vancouver B.C. V5K 3L7 (CA)
 - Machan, Lindsay S.
 Vancouver B.C. V6K 1A1 (CA)
 - Arsenault, Larry A.
 Paris, Ontario N3L 3E1 (CA)
- (74) Representative:
 Gowshall, Jonathan Vallance
 FORRESTER & BOEHMERT
 Franz-Joseph-Strasse 38
 80801 München (DE)

(54) Anti-angiogenic compositions and methods of use

(57) The present Invention provides compositions comprising an anti-angiogenic factor, and a polymeric carrier. Representative examples of anti-angiogenic factors include Anti-Invasive Factor, Retinoic acids and derivatives thereof, and taxol. Also provided are methods for embolizing blood vessels, and eliminating biliary, urethral, esophageal, and tracheal/bronchial obstructions.



EPO FORM 1503 (31.82 (P04C01)

EUROPEAN SEARCH REPORT

Application Number EP 96 11 9361

	DOCUMENTS CONSID	ERED TO BE RELEVANT		
Category	Citation of document with it of relevant pass	ndication, where appropriate, sages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.CI.6)
Y Y	EP 0 470 569 A (TAK INDUSTRIES, LTD.) 12 February 1992 (1 * page 9; example 1 * page 6, line 32 - * page 10; example * claims 1,13 *	992-02-12) * · line 33 *	1,2,6,8, 11,12 13-19	
X	WO 91 11193 A (CHIL 8 August 1991 (1991 * page 1, line 8 - * page 27, line 27 * claims 11,23 *	-08-08) page 6. line 21 *	1,5,8	
X	WO 91 10424 A (NORT 25 July 1991 (1991- * page 1, line 1 - * page 13, line 12 * page 19 - page 20	07-25) line 3 * - line 23 *	1,5,27	
X	EP 0 375 520 A (CEN RECHERCHES DERMATOL 27 June 1990 (1990- * page 12; example	06-27)	1,2,6,10	TECHNICAL FIELDS SEARCHED (Int.CL.6) A61K A61L
P,X	delivered from a bi implant against exp glioma" CANCER RESEARCH, vol. 54, 15 April 1 2207-2212, XP002063 BALTIMORE, MD(US)	erimental malignant 994 (1994-04-15), pages	1,10	
	The present search report has t	oeen drawn op for all claims		
	Place of search	Date of completion of the search		Examiner
	THE HAGUE	20 September 2000	Men Men	idjel, R
X : parti Y : parti docu A : tech O : non-	ATEGORY OF CITED DOCUMENTS cularly relevant if taken alone cularly relevant if combined with another ment of the same category nological background -written disclosure mediate document	T: theory or principle E: earlier petant doc after the filling data ner D: document cited in L: document cited fo &: member of the sa document	ument, but publis the application rother reasons	shed on, or

2



EUROPEAN SEARCH REPORT

Application Number EP 96 11 9361

ategory	Citation of document with indi of relevant passag		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
	MH. BARTOLI: "in antitumoral activity encapsulated taxol" JOURNAL OF MICROENCAL vol. 7, no. 2, May 1: 191-197, XP002063921 LONDON (GB) * the whole document	of free and PSULATION, 990 (1990-05), pages	2,8,10	
'	EP 0 543 653 A (LILL 26 May 1993 (1993-05 * abstract * * page 3, line 9 - 1	-26)	3-19	
,				
-			1	TECHNICAL FIELDS SEARCHED (Int.Cl.6)
•				
:			i	•
	The present search report has be	Parts of completion of the search	<u>, </u>	
	Place of search THE HAGUE	20 September 2000	Nen	Examiner idjel, R
X : par Y : par doc	CATEGORY OF CITED DOCUMENTS ticularly relevant if taken alone ticularly relevant if combined with anothe ument of the same category hnological background	T : theory or principle un E : earlier patent docum after the filing date	derlying the ident, but public ent, but public e application ther reasons	nvention

3 ·



Application Number

EP 96 11 9361

CLAIMS INCURRING FEES
The present European patent application comprised at the time of filling more than ten claims.
Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims and for those claims for which claims fees have been paid, namely claim(s):
No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for the first ten claims.
LACK OF UNITY OF INVENTION
The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:
see sheet B
All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.
As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.
Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:
1-16 and 17-19,27
None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:



LACK OF UNITY OF INVENTION SHEET B

Application Number EP 96 11 9361

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. Claims: 1-12,27

composition comprising an anti-angiogenic factor and a polymeric carrier

2. Claims: 13-16

a stent coated with an anti-angiogenic factor

3. Claims: 17-19

a graft coated with an anti-angiogenic factor

4. Claims: 20-26

use of a composition comprising an anti-angiogenic factor for the manufacture of a medicament for treating non-tumorigenic angiogenesis-dependent disease. This subject is prone to further non-unity a posteriori as there is a multitude of different active substances and a multitude of different diseases.

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 96 11 9361

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-09-2000

Patent document cited in search report				Patent family member(s)	y Publication date	
EP 0470569	Α	12-02-1992	AT	130517 T	15-12-199	
			ĊA	2048544 A	09-02-199	
			DE	69114782 D	04-01-199	
			DE	69114782 T	18-04-199	
			JP	5000969 A		
			üs	5202352 A	08 - 01-199 13-04-199	
W0 9111193	Α	08-08-1991	AT	144710 T	15 11 100	
	••	00 00 1771	ÂÙ	652744 B	15-11-199	
			AU		08-09-199	
			CA		21-08-199	
			DE	2074725 A	26-07-199	
				69122956 D	05-12-199	
			DE	69122956 T	22-05-199	
			DK	512071 T	25-11-199	
			EP	0512071 A	11-11-199	
			ES	2093699 T	01-01-199	
			GR	3021925 T	31-03-199	
			JP	6509791 T	02-11-199	
WO 9110424	Α	25-07-1991	US	5192744 A	09-03-199	
			AT	126065 T	15-08-199	
			CA	2050290 A	13-07-199	
			DE	69111919 D	14-09-199	
			DE	69111919 T	07-12-199	
			DK	463152 T	06-11-199	
			ĒΡ	0463152 A	02-01-199	
			JP	4504429 T	06-08-199	
EP 0375520	A	27-06-1990	LU	87410 A	10-07-199	
			AT	87822 T	15-04-199	
			AU	626619 B	06-08-199	
			AU	4709989 A	28-06-199	
			CA	2006028 A	20-06-199	
			DE	68905914 D	13-05-199	
			DE	68905914 T	14-10-199	
			ĎĒ	375520 T	29-11-199	
			DK	647789 A	21-06-199	
			ES	2054069 T	01-08-199	
			FĬ	102142 B	30-10-199	
			ΪĒ	62032 B	14-12-199	
			JP	2946098 B	06-09-199	
			JP	3135913 A		
			KR	140088 B	10-06-199	
			NO	176504 B	01-06-199	
			NZ NZ	231832 A	09-01-199	
			PT		25-09-199	
			<i>[]</i>	92622 A.B	29-06-1990	

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

FORM POASS

ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

EP 96 11 9361

This armsx lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

20-09-2000

	Patent document ed in search repo		Publication date		Patent family member(s)	Publication date
EP	0375520	A		US ZA	5292512 A 8909780 A	08-03-1994 28-11-1996
EP	0543653	A	26-05-1993	US AU CA HU JP MX NO RU US ZA	5270047 A 661067 B 2845492 A 2083223 A 70034 A,B 5201862 A 9206610 A 924461 A 2084224 C 5314688 A 9208832 A	14-12-1993 13-07-1995 27-05-1993 22-05-1993 28-09-1995 10-08-1993 01-05-1993 24-05-1993 24-05-1994 16-05-1994

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82